PageSetter

LaserScript

POSTSCRIPT LASER PRINTER SOFTWARE FOR THE AMIGA

USER'S GUIDE

Postscript Laser Printer Software for the Amiga

USER'S GUIDE

PROGRAM CONCEPT AND DESIGN BY
Kailash Ambwani Arno Krautter
L. Roger B. Patterson

PROGRAM DEVELOPMENT BY
Kailash Ambwani L. Roger B. Patterson

FONTS BY:
Adobe Systems Inc.
Tuned by: Paul Chafe

(c) 1987 GOLD DISK INC. All rights reserved
(c) 1987 ADOBE SYSTEMS INC. All rights reserved

PRINTED IN CANADA

This manual was writtten, edited
and composed on the Gold Disk
Desktop publishing system,
using an AMIGA computer,
PageSetter Desktop publishing
software, and PageSetter
LaserScript.
Proofs and final pages were
printed on a QMS PS800
PostScript laser printer.

TABLE OF CONTENTS

	Page
SECTION 1: Requirements	1
SECTION 2: Introduction to PageSetter LaserScript	2
SECTION 3: Setting Up	3
SECTION 4: Opening Screen	4
SECTION 5: The Main Options	4
SECTION 6: The Standard Print Studio	6
Standard Print Tutorial	12
SECTION 7: The Custom Design Studio	14
Custom Design Tutorial	18
APPENDIX A: Installing Adobe Fonts	20
APPENDIX B: Troubleshooting	22
APPENDIX C: Helpful Hints	23
APPENDIX D: Technical Support	24
FIGURE 1: Standard Print Studio Screen	5
FIGURE 2: Change Defaults Screen	8
FIGURE 3: Custom Design Studio Screen	13
FIGURE 4: FLYER.DOC Sample	15

Section 1: REQUIREMENTS

To use PageSetter LaserScript, you need the following:

1. Amiga Computer with a minimum of 512Kb RAM and 1 drive

2. Kickstart disk (if required)

3. PageSetter LaserScript disk

4. A work disk with PageSetter files, created using PostScript/Adobe fonts. These fonts are supplied on the PageSetter LaserScript disk and may be installed onto your PageSetter disk (Refer to Appendix A).

5. Access to a PostScript laser printer or typesetter.

Section 2: Introduction to PAGESETTER LASERSCRIPT

Welcome to PageSetter LaserScript. This exciting new PageSetter module brings new levels of sophistication to the Desk Top Publishing power of your Amiga. For clarity in this manual, we will refer to PageSetter LaserScript as simply, "LaserScript".

An indispensable tool for professional layout and design, LaserScript adds the incredible page manipulation capabilities of the PostScript language to your Amiga/PageSetter package. You will now be able to import the files which you generate in PageSetter into LaserScript, to create outstanding layouts and page design.

These customized pages can be printed out on any laser printer or typesetter compatible with the PostScript page description language. You gain this power without having to learn PostScript programming. You can now produce pages which are almost indistinguishable from those done by a professional typesetter.

This manual has been written to help both the first-time user, and the advanced operator of Desk Top Publishing units. All screens, windows, menus, and gadgets are illustrated and explained. They follow the Amiga standard, so there's no need here to belabour the basics.

Get ready now for your exciting leap into the world of Desktop Publishing --the world of PageSetter and PageSetter LaserScript!

Section 3: SETTING UP

To ensure maximum ease of use with LaserScript, follow these simple, basic steps carefully, before proceeding further:

1. Make a back-up copy of your LaserScript disk. (if you have not already done so, you should make a back-up of your PageSetter disk as well.)

2. Read the file called 'READ_ME', included on your LaserScript disk for additional helpful information.

3. Ensure all connections between the Amiga and your laser printer (and any related peripherals) are correct and secure. Refer to the appropriate documentation as required.

4. Turn your equipment on and insert the LaserScript disk at the Workbench prompt.

5. Double-click on the LaserScript disk icon when it appears.

6. You now have the LaserScript window. Double-click on the LaserScript program icon to start the program.

Section 4: THE OPENING SCREEN

You should now be looking at the opening screen. At the file requester prompt, select the desired PageSetter document for printing. Pages that contain built-in Amiga fonts (as opposed to PostScript/Adobe fonts), will print, but only as bit-mapped graphics. To realize the full power of this program, you MUST install the Adobe fonts, supplied on the LaserScript disk, onto your PageSetter disk, and create your PageSetter pages using these fonts. If you have not yet done this, refer to APPENDIX A: INSTALLING THE ADOBE FONTS, and then use these fonts to create your document in PageSetter.

Section 5: THE MAIN OPTIONS

If for any reason you want to exit LaserScript simply click on 'QUIT' and you will return to the opening window. To continue, click either the 'STANDARD PRINT' or the 'CUSTOM PAGE DESIGN' option.

We suggest first-time users refer to SECTION 6: THE STANDARD PRINT STUDIO, before trying any of the program's other features. That section contains 'Standard Print tutorial', a mini-tutorial that will walk you through the printing of a sample LaserScript flyer included on the LaserScript disk.

If you simply want to make printouts of one page or a series of consecutive pages (e.g. from page 1 to page 10, from page 3 to page 8, etc.), you should select 'STANDARD PRINT'. You may still make certain modifications to the page format using this option. These are described in detail in SECTION 6: THE STANDARD PRINT STUDIO.

If you want to create a series of individually customized pages (multiple page overlays, different formats, layouts, sizes, etc.), select the powerful CUSTOM PAGE DESIGN STUDIO and refer to SECTION 7 for instructions.

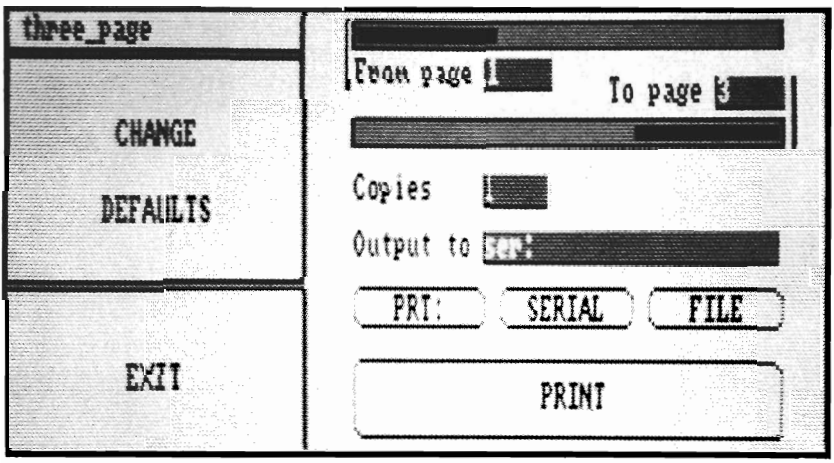

Figure 1: The 'Standard Print Studio' screen

Section 6: THE STANDARD PRINT STUDIO

If you have understood and have followed the procedures to this point, you may want to refer immediately to the Standard Print tutorial at the end of this section. You will find a step-by-step description of how to create your first actual laser printout. We do, however, recommend that you read through the following section first, to get a feel for the STANDARD PRINT STUDIO'S capabilities.

The first screen you will see when you select this option (see figure 1) is divided into three general sections: PRINTING OPTIONS (right side of screen), CHANGE DEFAULTS, and EXIT.

If you have loaded a document (document name appears in the top left portion of the screen) and you want to print it out as is, just set the range of pages to be printed, the number of copies you want, and the destination of the output. Click the 'PRINT BUTTON' and the mouse pointer will 'go to sleep'. After a short delay, your document will be sent to the printer.

PRINTING OPTIONS

This section (the right side of your screen) allows you to set attributes for printing. The following is a summary of the gadgets and their functions.

GADGET	TYPE	FUNCTION
Page#	Slider	Set the starting and ending pages in a printing sequence, with the mouse
Page #	String	Set the starting and ending pages in a printing sequence from the keyboard
Copies	String	Keyboard entry of Number of Copies to print
Output	String	Keyboard entry of Output Destination (PRT:, SER:, filename)
PRT:	Button	Selects PRT: as output device
SERIAL	Button	Selects SER: as output device
FILE	Button	Calls up a file requester for output destination
PRINT	Button	This mean 'GO!'. Sends output to output device

CHANGE DEFAULTS

If you want to change any of the default settings in this section, use the CHANGE DEFAULTS option.

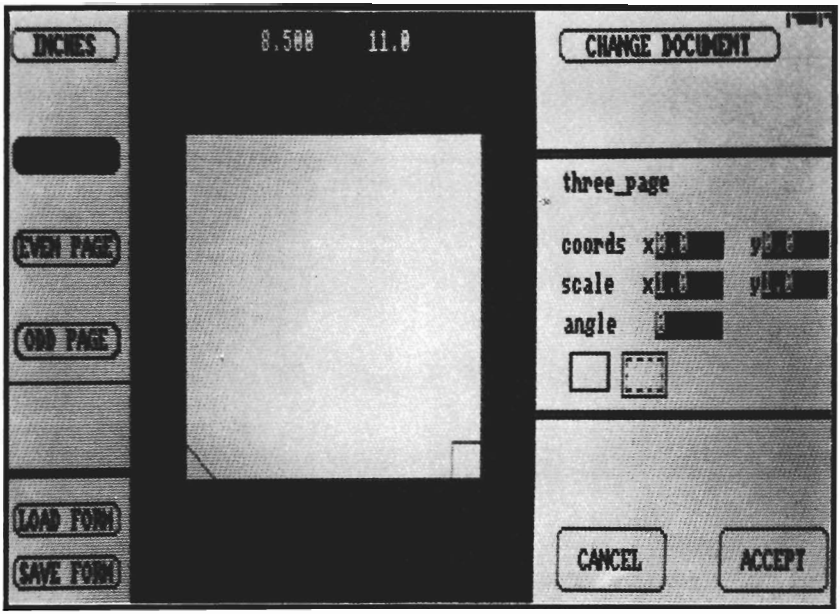

Figure 2: The 'Change Defaults' screen

This is one of the two places where you can manipulate PageSetter pages on the LaserScript page. It is important that you note the difference between your 'document' or PageSetter pages, and LaserScript Pages which you will create, load, and save, from this screen (and from the CUSTOM PAGE DESIGN STUDIO). Select CHANGE DEFAULTS option (see figure 1) whenever you wish to inspect, or change the default format settings (e.g. page size). If you want elaborate design capablilties, use the CUSTOM DESIGN STUDIO.

Left Side of Screen

Looking from top to bottom, you will see that this is divided into two areas: the default formatting buttons, and the file handling buttons.
Here is a list of the gadgets and their functions:

GADGET	TYPE	FUNCTION
Inches/Pica	Button	Toggles between units of inches or picas
All Pages	Button	Selects format for all pages
Even Pages	Button	Selects the format for even pages
Odd Pages	Button	Selects the format for odd pages
Load Form	Button	Loads a previously saved form
Save Form	Button	Saves the current form

Right Side of Screen

GADGET	TYPE	FUNCTION
Change Document	Button	Imports a new PageSetter Document
Document Name	None	Displays current PageSetter Document name
x coordinate	String	Shows horizontal coordinate of top left corner of the document page
y coordinate	String	Same as above but vertical
x scale	String	Shows the width of the document page relative to the original size
y scale	String	Shows the height of the document page relative to the original size
Angle	String	Shows the angle of rotation, in degrees, of the document page
Shadow	Button	Gives 'raised' look by putting a shadow beneath the document page
Border	Button	Outlines the document page

Middle Area of Screen

This large center section is where you will manipulate your PageSetter pages. The PageSetter page you are currently working with will be outlined in orange. Its document name and page number are displayed on the right hand side of the screen, above the boxes containing the X and Y coordinates. The actual LaserScript page, or 'Output Page' is the solid white rectangle. Its size may be set by clicking on the boxes in the top centre of the screen and entering the new dimensions. The default dimensions are 8.5 x 11.

The only part of the screen printed is that part which appears on the white area. Anything outside this area is not defined on the LaserScript page, and will not be printed.

The position, size, and orientation of the PageSetter page are represented by the orange rectangle (the 'outline') in the white area. These can be changed by using either the string gadgets on the right side of the screen, or the mouse. To change the orientation of the page, press the left mouse button on the small triangle at the lower left corner of the outline, and holding the button down, move the mouse. To change the size, repeat the above procedure with the small box on the lower right side of the outline. To reposition the page, click anywhere in the outline and drag.

Standard Print tutorial

To give you a quick preview of LaserScript, with some hands-on practice, we have included a sample file called, 'flyer.doc' on your LaserScript disk.

1. Refer to the REQUIREMENTS and SETTING UP sections of this manual, and follow those steps carefully.

2. Your system should be configured correctly for use with your laser
printer or typesetter.

3. At the file requester, select 'flyer.doc'.

4. In STANDARD PRINT make sure that the output destination is correct by hitting the corresponding button (PRT: or SERIAL). If your laser printer is connected to the serial port, make sure that you have set the proper parameters (eg. baud rate, parity, stop bits, etc.) in Preferences.

5. When all settings are correct, click on the PRINT button.

6. The mouse pointer will 'go to sleep' and after a brief delay, output will appear on your printer.

7. You are now looking at a full-size reproduction of the sample flyer.

NOTE: If you didn't get to step 7, check that you followed each step, then try again. If you still don't get an acceptable printout, refer to APPENDIX B: TROUBLESHOOTING.

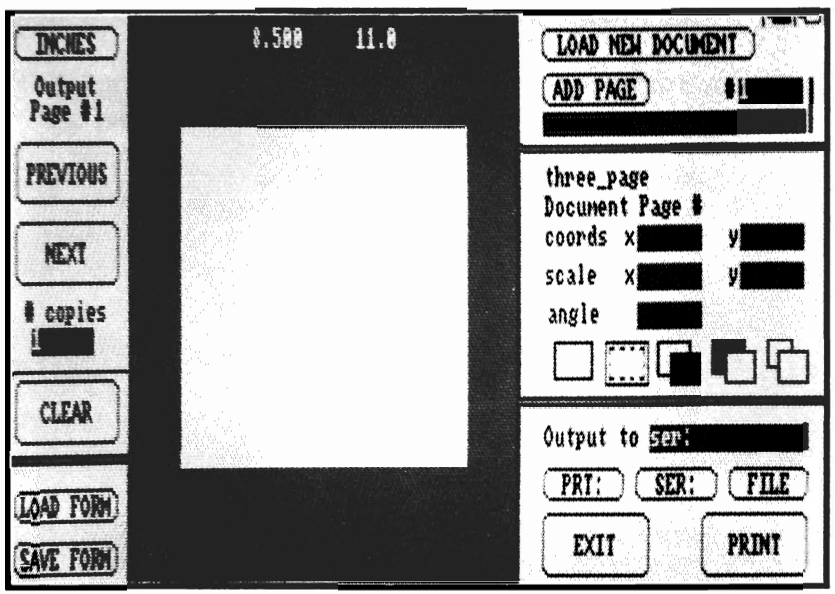

Figure 3: The 'Custom Design Studio' screen

Section 7: THE CUSTOM PAGE DESIGN STUDIO

The CUSTOM PAGE DESIGN STUDIO allows you to import as many pages, from as many PageSetter document files, as you like. When you select this option, you can create a variety of custom page designs. You can create designs consisting of multiple pages from your choice of any number of PageSetter documents ... a myriad of pages displayed on ONE output page! This capability works hand-in-hand with the DEPTH ARRANGEMENT and OPAQUE gadgets. These allow you to 'overlay' opaque (solid) or transparent PageSetter pages on top of other PageSetter pages. (See figure 4 for an example of these effects).

In addition, you can set page sizes in inches or picas and set the scale and rotation of each PageSetter page. It is this combination of flexible features which makes the CUSTOM PAGE DESIGN STUDIO such a powerful option in your LaserScript program.

The Custom Page Design Screen

On this screen (figure 3), you will see many of the features found in the CHANGE DEFAULTS screen of the STANDARD PRINT STUDIO. In fact, most of these ARE identical, both in function, and in method of operation. Therefore, please review the description of GADGETS and FUNCTIONS in SECTION 6: THE STANDARD PRINT STUDIO, for an explanation of their use.

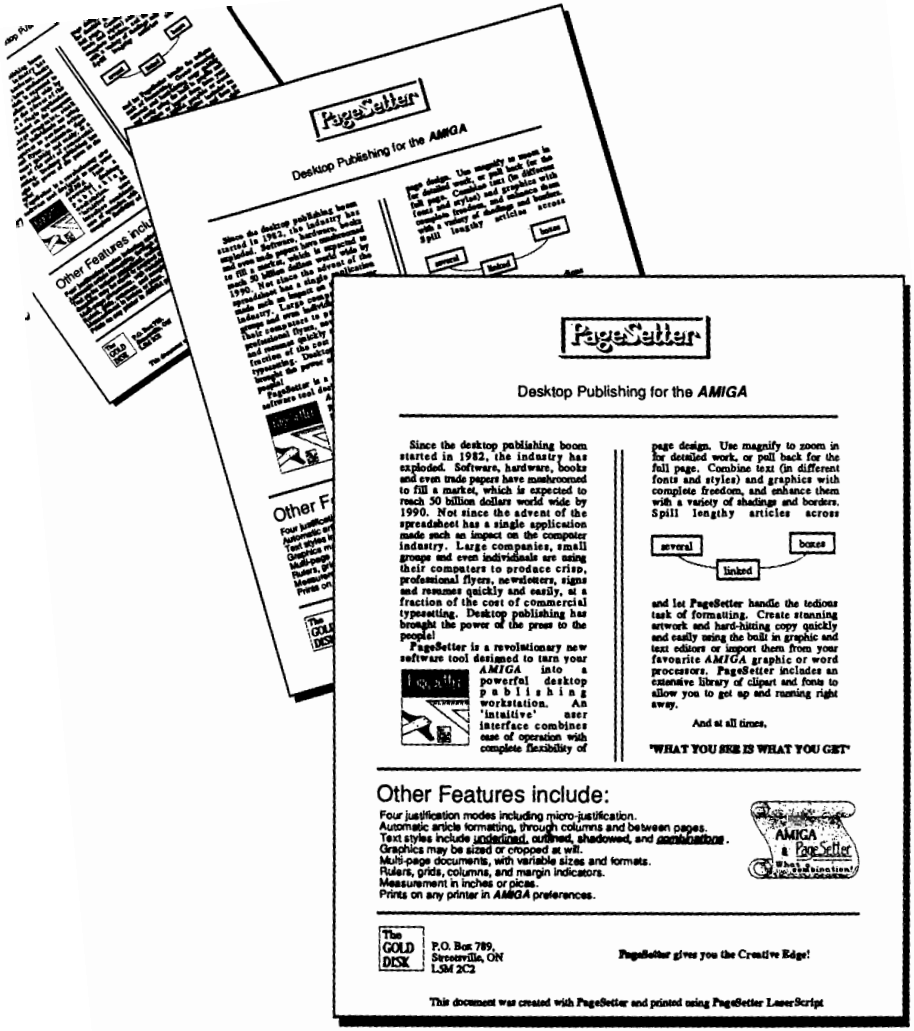

Figure 4: Custom Design Sample

Left Side of Screen

In Custom Design Studio, the following extra gadgets appear on the left side of the screen:

GADGET	TYPE	FUNCTION
Output Page #	None	Page number of the current LaserScript output page
PREVIOUS	Button	Selects the previous output page
NEXT	Button	Selects the next output page - If it does not exist, one is created
CLEAR	Button	Clears the current output page
# Copies	String	Selects the number of copies to print of the current output page

Middle Area of Screen

This is the same as the middle area of the STANDARD PRINT STUDIO with the addition of a TRASHCAN. To delete a page, drag it into the TRASHCAN.

Right Side of Screen

GADGET	TYPE	FUNCTION
Load New Document	Button	Imports a new PageSetter document without affecting the output page
Page #	String	PageSetter Page number of the page to be added
Page #	Slider	As above, using the mouse
ADD PAGE	Button	The 'action button' to actually add the PageSetter page to the current LaserScript page
Document Info	None	The document name and page number
Shadow	Button	Gives your PageSetter page a shadow (raised look)
Border	Button	Provides a border around the current PageSetter page
Front to Back	Button	Places the current PageSetter page (highlighted in orange) behind all other pages
Back to Front	Button	Places the current PageSetter page in front of all other pages
Opaque/ Transparent	Button	Toggles the current PageSetter page between opaque and transparent

Custom Design tutorial

1. Display a document page, by choosing a page number from the current document, and click on ADD PAGE. Each time you wish to work with another page in the document, you MUST click on ADD PAGE, in order to add that page to the LaserScript page. You will now see a PageSetter page outlined in orange on the LaserScript Output page display.

2. Move the Document page. Shrink it, rotate it, and move it around the LaserScript page. Experiment!

3. To reproduce the same document page elsewhere on your layout, click on ADD PAGE and manipulate it in the same manner described above.

4. Change to another page within the current PageSetter document. Click on ADD PAGE again, and repeat the steps above.

5. Now click on the LOAD NEW DOCUMENT BUTTON. (Make sure that you have another valid PageSetter document in the currently active disk drive). At the file requester prompt, enter the name of the new document to be loaded.

6. Once the load is complete, select the page that you want to add, following the same procedure as in step two.

7. Click on ADD PAGE, and manipulate the new page.

8. You should now see the outline of several PageSetter pages, one for each time the ADD PAGE button was used.

9. Click on any of the Document Pages which you see on the Output Page. It will be highlighted in orange, and it will become the currently active Document Page. Try dragging a PageSetter page to the TRASHCAN.

10. If you are satisfied with your layout, click on the NEXT BUTTON, and go back to step 1. You will be creating your second Output Page.

11. When you are comfortable with the entire procedure, click on either EXIT or PRINT.

EXIT returns you to the MAIN OPTIONS screen.

PRINT will direct your output to the destination specified

12. Congratulations. You have now taken your first steps towards exploiting the incredible layout and design power of PageSetter LaserScript!

If, after checking each step carefully, you find that you were not able to layout and print a page, please refer to the APPENDIX B: TROUBLESHOOTING.

If you wish to reproduce Figure 4, click on LOAD FORM in the Custom Design Studio and retreive 'flyer.form'.

APPENDIX A: Installing Adobe Fonts

Both PageSetter and LaserScript may be diskcopied (please read licence agreement). **You should make, and work with, back-up copies of both.** The simplest way to use LaserScript in conjunction with PageSetter is as follows: After the Workbench prompt insert the LaserScript Disk instead. If you have 2 drives insert PageSetter into the external drive. On a single drive system you should remove the LaserScript disk after bootup and insert the PageSetter disk. This procedure insures that PageSetter will use the fonts in the LaserScript fonts directory. On the LaserScript fonts directory we have also included copies of the standard Amiga fonts. If you use these fonts in a document, however, they will not be printed on a PostScript output device at its highest resolution. They will instead be printed as a bitmapped graphic at a resolution of 120x72 dpi. Text in the PostScript fonts will be printed at the full resolution of your PostScript output device.

If you prefer, you could copy the PostScript fonts to your PageSetter disk. This will involve using the command line interface (CLI) so you should familiarize yourself with its operation first. If you simply want to copy all of the fonts to the PageSetter disk type "copy LaserScript:fonts to PageSetter:fonts all" at the CLI prompt (" 1>"). To copy a single font you must make sure that you copy 3 things to the PageSetter fonts directory. 1) the xxx.font file, 2) the xxx.metric file, and 3) the xxx directory and all its contents (xxx is the name of the typeface). LaserScript can not properly use this font unless all of these files are on the LaserScript fonts directory. Finally, a third alternative is to simply assign the device 'fonts:' to LaserScript:fonts. This will have to be done every time you use LaserScript.

The PostSript fonts included on the LaserScript disk are: Helvetica, Courier, Times, and Symbol. They come in a variety of sizes. They represent the most common typefaces popular for

business, communications, and advertising. With a PostScript device, these fonts provide crisp, well-defined text.

Using MakeFont

A second utility program MakeFont allows you to make new sizes of existing fonts. For example you can make times/48 from the times/24 font included on the LaserScript disk. You will need to specify the name and size of the original font, and the destination font. The MakeFont program will then do the following:
1. Make a scaled copy of the original font.
2. Alter (or create if necessary) the '.font' file so that AmigaDos 'knows' about the new font.

To use another font which your PostScript output device supports, you will need to have both a screen representation of the font and a '.metric' file. The screen representation may be created by using the MakeFont utility **after** you have acquired a '.metric' file (discussed below). In MakeFont specify an existing font (i.e. times) as the sources font and the PostScript name of desired new font as the destination font (eg. Palatino). The on screen represention will still look like the original font but the output on the PostScript printer will be in the new font. For best results you should create your own screen representation.

The format of the '.metric' file is as follows:
32 bytes containing the exact PostScript name of the font
256 words containing the scalable widths (PostScript SWIDTH normalized to 10,000) for the normal style of the font.
32 bytes containing the exact PostScript name of the bold version
256 words as above but for the bold style.
32 bytes containing the exact PostScript name of the italic version
256 words as above but for italic style.
32 bytes containing the exact PostScript name of the bolditalic version
256 word as above but for bold-italic style.

APPENDIX B: TROUBLESHOOTING

1. Remember, for a Postscript device, you must have created PageSetter pages using the Adobe fonts in order to format them using LaserScript. If you get 'blank output' or poorly-formed characters, check to ensure that Postscript fonts (Helvetica, Courier, etc.) were used to create the PageSetter document you wish to use. Regular Amiga fonts are printed as a graphic bitmap, and do not fully utilize the potential of the PostScript printer.

2. If you've followed the initial steps and your printer, "hangs up," begin again ... but re-check your connections. If your printer is connected to your serial port, re-check your parameters in the 'Change Serial' section of the WorkBench 1.2 preferences. If you still can't get a hardcopy, you should: refer to your printer manual, check with your printer dealer, or call us at GOLD DISK and we will try to get you up and running. In most cases however, some small oversight will be the problem.

3. Sometimes, a user may only have a serial device on line while output is directed to the 'prt:'. Always double-check the output box when using both the STANDARD PRINT STUDIO and the CUSTOM PRINT STUDIO.

4. If you changed a document by adding or deleting pages AFTER saving a form, you may get unexpected results when you use that form later to print the document.

APPENDIX C: Helpful Hints

1. Experiment! Try a variety of layouts, testing both for correct printing and eye-catching design.

2. Saving a form can help you if you need a recurring template. In the CUSTOM PRINT STUDIO, reload the previously saved document ... and its form ... then simply change the PageSetter pages.

3. If you are using LaserScript for a periodical, mark your PageSetter work disks with the date, including the week or month in each file name. Its a good way to avoid confusion when trying to load files.

4. The number and variety of PostScript devices continues to grow. You may find a print shop that can take your LaserScript files by modem, and then produce very high resolution printouts ... even typesetting ... on specially coated paper, ready for an offset press.

5. Rotating PageSetter pages 90 degrees in LaserScript will give you 'Landscape' or 'sideways printing' on your hardcopy.

6. Rotating pages 45 degrees, and then scaling them down can let you place a 'Flash' on the corner of a page (e.g. "SPECIAL ISSUE!!).

7. Negative Scaling. You can create mirror pages by scaling a page completely around. In other words, if either your x or y scaling is negative, you get a mirror image.

APPENDIX D: CUSTOMER SUPPORT

At Gold Disk, we are committed to providing the best technical support possible.

The most important thing that you as a purchaser of Gold Disk products can do is to promptly send in the registration card enclosed. This will automatically entitle you to receive information on upgrades and bulletins about our products, as well as access to our technical support phone number.

Please inform us of any problems, suggestions, or enhancements you may have. This will allow us to share your comments with other users and act on them as necessary. Taking advantage of this direct channel will help up keep our committment to providing the best in Desktop Publishing software.

Free free to drop us a note at:

GOLD DISK INC
c/o CUSTOMER SUPPORT
PO BOX 789, Streetsville
Mississauga, Ontario
CANADA
L5M 2C2

Disclaimer

Much care has been taken in preparing the manual and software contained on this disk. However, GOLD DISK INC. makes no expressed or implied warranty of any kind with regard to these programs, nor the manual. In no event shall GOLD DISK INC. be liable for incidental or consequential damages in connection with or arising out of the furnishing, performance or use of these programs or manual. GOLD DISK INC. reserves the right to alter or update any program, publication or manual from time to time without obligation to notify any person of such changes.

Copyright Notice

The GOLD DISK PageSetter LaserScript programs are copyrighted and all rights are reserved by GOLD DISK INC. Any copying, duplicating, selling or otherwise distributing of these programs without written consent of GOLD DISK INC. is a violation of law.

Manufactured and distributed by:
GOLD DISK INC., P.O. BOX 789, Streetsville, Mississauga,
Ontario, CANADA L5M 2C2

PageSetter and PageSetter LaserScript are trademarks of GOLD DISK INC.
PostScript is a registered trademark of Adobe Systems, Inc.
Helvetica and Times are registered trademarks of Allied Corporation

PRINTED IN CANADA